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9 JAIN 1972

Lt. Gen. William C. Gribble, Jr. Chief of Research and Development Department of the Army Washington, D. C. 20310

Dear General Gribble:

Mr. Duckett has asked me to reply to your letter of 3 May concerning the 1972 Army Science Conference. While we appreciate your invitation to attend, the pressure of business precludes our Agency's attending the conference this year.

Thank you for bringing this conference to our attention.

Sincerely,

Assistant Deputy Director

Science and Technology

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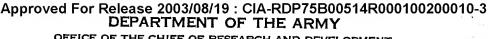
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OFFICE OF THE CHIEF OF RESEARCH AND DEVELOPMENT WASHINGTON, D.C. 20310

DD/S&T# 1396-72

Mr. Carl E. Duckett Deputy Director for Science and Technology Central Intelligence Agency

Washington, D. C. 20505

3 May 1972

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Dear Mr. Duckett:

A cordial invitation is extended to you to attend the 1972 Army Science Conference, to be held at the U.S. Military Academy, 20-23 June. The majority of the 400 persons expected to attend will be Army military and civilian scientists and engineers. Other delegations will include representatives from the Departments of the Navy and Air Force, a number of government agencies, Australia, Canada, the Federal Republic of Germany, France, and the United Kingdom.

This is the eighth in a series of conferences inaugurated in 1957. The program includes, for the first time, presentations by the senior representatives of the Army scientific staffs of the aforementioned Allied Nations. It also includes a panel discussion on Reliability, Availability and Maintainability chaired by Mr. Jack Hope, Office of Science and Technology, Executive Office of The President. The Honorable Robert F. Froehlke, Secretary of the Army, will speak at the banquet.

I would be particularly pleased to have you attend; but if this is not possible, a member of your staff will be most welcome. General information concerning the conference and registration card are inclosed. It is requested that the completed registration card and security clearance certification be returned promptly.

I shall look forward to seeing you or your representative at the conference.

Sincerely yours,

1 Incl General Information

Lieutenant General GS

Chief of Research and Development

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		1972 ARMY SCIENCE CONFERENCE		
		HOTEL THAYER		
SISSION A (Eursch Gallery)	SESSION B (Crest Room)	SESSION C (Crest Room Terrace)	SESSION D (Lawn Terroce)	ISD-STON A Camies Tire
fr. C. M. Grenshaw, Chairman	Mr. R. F. Jackson, Chairman	Dr. J. V. R. Kaufnan, Chairman	i oneoro: o (monii lellece)	Dr. I. R. Services, C. 11
SUBSESSION A-1	SUBSESSION B-I		SUBSUSSION D-1	leuseston L-f
1306-1700 WED, 21 June	1530-1700-WED, 21 June	SUBSESSION C-I		1539-1000 Man, 21 June
Dr. John P. Hallewas	Mr. James Stillmen	1530-1700 WED, 21 June Mr. John A. Brinkron	COL Robert T. Joy	Mr. Fari T. Trellin
1. Emperimental Verification	1. Fracture Mechanics Appli-			II. Haddher William .
of Theoretical Predictions		sis of Fatigue Crack Growth		Fragmention Paul
of Self-Induced Beam Dis-	Cement Concretes	in Thick-Wallad Cylinders	i in compac burgery	Lifectivenas
tortion for High Fower		i inter matter cytingers	*BG S. N. Bhaskar	11320000
- Ponsity Controllable Beam	* Dr. D. J. Naus	*Mr. J. J. Miller	Mr. Arthur Gross	* Mr. Hinch Coches
Weapons System		Mr. R. R. Fujczak	Mr. D. E. Cutright	
		Mr. D. C. Winters		i .
Dr. Rudolph C. Buser				
" Br. Robert S. Rhode	·			
			1 m	
i. Inder desisted lew Chergy	2. Dynamic Response of Rein-		2. Mandibular Bone Grafts with	
X-Ray Flash Gineration	forced Openings in Rock	Tank Bottom Hull Plates	Surface Decalcified Bone	Produces Valor Plants
		Subjected to Mine Blast		t ;
wir. Romas A. Shates	* Dr. Lewis H. Blakey		COL Gilbert E. Lilly	* Mr. W. H. Mudmally, 3:
Mr. John D. Sisttler		* Mr. Donald F. Haskell	COL Donald B. Osbon	
Mr. Farry C. Mayor			* MAJ John C. Jones	1
Mr. Thomas G. Roberts			SP 5 Perry C. Hackett	1
-		·		
2. Lagar Ignition of Aircraft	3. Mapping Seismic Response	3. Stress Singularities Asso-	3. The Automated Dithionite	3. Shaped Course " to
Fuel	Characteristics of Complex	ciated with a Crack	Test for the Detection of	and Jet Francis
	Terrain	Inclined to a Bi-Material	Femoglobin S in Military	and the representations of
* Mr. Ona R. Lynan		Interface	Personnel. A Technic Exolved	garlens
	*Mr. L. E. Link	•	from Molecular Concepts.	1
	Mr. W. F. Marcuson	Mr. S. L. Pu	* LTC Frank R. Camp	AMr. G. Nardmartilia
		Mr. R. D. Scanlon	COL N. F. Conta	i - Mr. D. G. Cabachel c
		* Mr. M. A. Hussain	Dr. R. M. Nalbandian	
• -				
4. "Stagetical Similes of	4. Ice Forces on Vertical	4. Effect of Ingot Thermal	4. The Effect of Foliate on	No anatonic de la company
ligh sweeter a load Con-	Piles	Markenical Propessing	Amorral Carbobyduate	Freduction Steel
		Treatments on the Cyrin	Notabolism	
	#Mr. Roscoe E. Perham	Size and Properties of	* MAJ H. J. Greene	Marin Committee
oMr. Charles Com n	Mr. Donald E. Nevel	Wrought 7075 Alloy	LTC E. G. Lufkin	* 77. 11. 11. 20.00
Mr. Sceven Ka t		lease:2003/08/19 : CIA-RDP75B00514		Ar. J. L. W.eld
		Mr. D. Sullnski	Dr. W. C. Stifel	gradu Madie

		elease 2003/08/19 : CIA-RDP75B00514		SUBSESSION E-II
, SUESESSION A-II	SUBSESSION B-II	SUBSESSION C-II	SUBSESSION D-II	
0830-1000 THURS, 22 June	0830-1000 THURS, 22 June	0830-1000 THURS, 22 June	0830-1000 THURS, 22 June	0830-1000, THURS, 22 June Dr. Richard L. Haley
COL Bennett L. Lewis	Mr. Robert A. McMurrer	Dr. Walter S. McAfee	COL Garrison Rapmund	DI. RICHAID L. HAIEY
1. The METRRA Technique.	1. Data Processing System	1. Measurement of the Angular	1. Spectral Deficits in	1. A Unique Heterogeneous
	Analysis	Distribution of Photoelec-	Visual Acuity Due to	Explosion at Liquid
*Mr. Guy F. Origlio		trons from Third Generation	Laser Irradiation	Nitrogen Temperature
*	* Mr. Charles R. Vick	Photocathode Materials		(77° K.)
			* Dr. Harry R. Zwick	*Mr. Carl R. Wellman
4		* Dr. J. H. Pollard	MAJ R. Bruce Bedell	* Mr. Carl R. Wellman
			Mr. Kenneth Bloom	,
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2. Infrared Mine Datection	2. Filtering of Time Cor-	2. On the Theory of Stopping	2. The Preclinical Detec-	2. Stability of Ammonium
2. Inflated pulle DateCtion	related Data	of Fast Charged Particles	tion of Chemical	Nitrate as Inferred from
*Mr. Dwight L. Gravitte	191000 5000		Mutagens and Their	Structural and Lattice-
112. 20.28.0 21. 0.44.2000	* Mr. Richard H. Duncan	* Mr. Ari Brynjolfsson	Evaluation as Genetic	Dynamical Studies
			Health Hazards	
		·	0.	Mr. C. S. Choi
			* Dr. Robert L. Capizzi	Mr. Z. Iqbal
	•		Dr. Bruno Papirmeister	* Mr. H. J. Prask
				Mr. S. F. Trevino
3. Measures and Counter-	3. An Extended Finite Dif-	3. Anistropic Dose and Its	3. Acid-base Change in Heat	3. Oscillatory Behavior of
neasures for redetonation	ferences Method for the	Applications in Direction-	Exhaustion During Basic	Detonating Solid Explo-
of Buried Pressure Elec-	Solution of System	al Radiation Sensing	Training	sives
tric Mines	Problems	* Dr. Stanley Kronenberg		
*Mr. Samuel Stuber		Dr. Robert A. Lux	* MAJ A. E. Boyd, III	* Mr. Philip M. Howe
Mr. George Haller	* CPT C. R. Longcor	Dr. Wolfgang J. Ramm .	MAJ G. A. Beller	Mr. Giordano Melani
Mr. Joseph Curran		Mr. Kristian I. Nison	•	
Mr. Harry Berger		Mr. Robert Pfeffer	1	* .
		Mr. Harry L. Berkowitz		
4. Use of Magnetic Latitude	4. A Stochastic Network to	4. Fast Neutron Radiography	4. A Vaccine Against Organo-	4. Electronic Processes in
Simulator and Data Proces-	Model Air Cargo Terminals	4. Fast Neutron Radiography	phosphorus Poisoning	Explosives Initiation
sing in the Davelopment	Moder Air Cargo Terminais	* Mr. John J. Antal	* Dr. Ludwig Sternberger	
of Sophisticated Land	* Mr. H. A. Porte	Mr. Robert L. Becker	Dr. Van M. Sim	* Mr. H. D. Fair, Jr.
mine guzes	Mr. W. W. Happ		. CPT William G. Kavanagh	Mr. D. S. Downs
	Mr. C. T. Lee	I .	Mr. John J. Cuculis	Mr. A. C. Forsyth
«Mr. M. C. Butler .	Mr. L. P. McNamee	1	Mr. Howard G. Meyer Mr. David E. Lenz	Mr. M. Blais
•		Denotes presentor.	Dr. Dennis M. Hinton	Mr. T. F. Gora
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SUBSESSION A-III 1030-1200 THURS, 22 June Dr. Alvin E. Gorun	SUBSESSION B-III 1030-1200 THURS, 22 June Mr. Edward Lotz	SUBSESSION C-III 1030-1200 THURS, 22 June Dr. Robert J. Eichelberger	SUBSESSION D-III 1030-1200 THURS, 22 June COL Richard F. Barquist	SUBSESSION E-III 1030-1200 THURS, 22 June Dr. Benjamin L. Harris
1. A ERL Lightweight Armor Concept Mr. A. Merendino * Mr. J. M. Regen 2. Fabrication of New Composite Materials *Mr. James W. McCauley	1. Disposal of Cellulosic Waste Materials by Enzymatic Hydrolysis * Dr. Mary Mandels SP4 Lloyd Hontz SP4 Dixon Brandt 2. An Intensive Approach to the Study of Materials Deterioration in the Tropics *Dr. Wilfried H. Portig Mr. George Gauger Mr. George F. Downs	1. Optimum Bullet Study * Mr. L. C. MacAllister Mr. B. J. Reiter Mr. B. B. Grollman Mr. A. E. Thrailkill Mr. E. Roecker 2. Experiment to Assess Capabilities of an Automated Small Arms Test Facility * MAJ A. B. Phillips CPT R. M. Jones	1. Restoration of Drug- resistant Bacteria to Sensitivity to Chemo- therapeutic Drugs * Dr. Fred E. Hahn Miss Jennie Ciak 2. A Mediator for Trigger- ing Non-specific Host Defense Mechanisms * Dr. R. S. Pekarek Dr. R. W. Wannemacher	1. The Kinetics and Mechanism of the Binary G3 Reaction as Determined by NMR Spectroscopy Mr. R. L. Wintermyer * Miss Linda Szafraniec Mr. Harvey R. Bradford Mr. Harvel Klapper 2. Molecular Orbital Theory as Applied to Fulvene Reactions * LTC Robert B. Henry
Gradient Furnate Technique	3. Development of Multi- purpose Water Purifica- tion Unit for Army Field Use Mr. Allen Ford, Jr. * Mr. Don C. Lindsten 4. A Probabilistic Model for Structuring a Drainage Network	3. An Analysis of 5.56MM Aluminum Cartridge "Burn- Through" Phenomenon * Mr. Walter Squire Mr. Reed E. Donnard 4. Analysis of Band Pressure in a Gun Tube Using Finite Elements and Shell Pushing	3. Penetration of the Intestinal Epithelium by Various Microorgan- isms * Dr. Akio Takeuchi 4. Control of VEE Epizootic- Epidemic by Vaccine Devel- oped at USAMRIID	3. The Mechanism of Action and Treatment of Palytoxin Poisoning * MAJ James A. Vick Mr. Joseph S. Wiles 4. A Heat Stable, Highly Sensitive Enzyme for Ditantion and Identification of
for Transparent Armor Tollications Mur. D. Viscomicki Mr. F. Schmid		Data Mr. Stephen G. Sawyer * Mr. John M. Hurban Release 2003/08/19: CIA-RDP75B0051 motes presentor.	* LTC Richard O. Spertzel COL Dan Crozier	* Dr. David N. Kramer Dr. Harry G. Michel Dr. William Swain Mrs. Ethel Hackley

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SUBSESSION A-IV	SUBSESSION B-IV	CURCUCCTON C TW		
1330-1500 TEURS, 22 June	1330-1500 THURS, 22 June	SUBSESSION C-IV 1330-1500 THURS, 22 June	SUBSESSION D-IV	SUBSESSION E-IV
LTC Austin Lowry	Dr. William Banks	Dr. David B. Rosenblatt	1330-1500 THURS, 22 June	1030-1500 THURS, 22 June
		DI. David B. Rosenblatt	Mr. Victor L. Friedrich	Dr. Vitalij Garber
1. Human Engineering Lab- oratory Battalion. Artillery Testo (HELBAT)	l. A Unified Method of Describing Vehicle Dynamics	1. Friction of Poly (n-Alkyl Methacrylates)	1. Millimeter Wave Quasi- Optical Techniques for Device and Circuit	1. A Parametric Analysis of the Multiple Artillery Rocket System (MARS) vs
* Mr. Gary L. Horley	* Mr. N. R. Murphy Mr. A. S. Lessem	* Mr. Henry Gisser Mr. Marco Petronio	Functions	the Improved 8-inch Howitzer
			* Mr. Metro M. Chrepta	
			Dr. Harold Jacobs	* MAJ F. J. Franks
2. Hand-Held Laser Range- finder (AN/GVS-5)	2. Analytical Prediction of Vehicle Mobility	2. High Temperature Poly-	2. Rare-earth Cobalt Perm-	2. A Means of Inducing Variable
	- Indiana institution	mides from a New Hexa- hydrobenzodipyrrole	anent Magnet Materials	Swirl and Increased Engine
* Mr. R. J. Newton	* Mr. Howard Dugoff	Monomers .	for Electromechanical	Efficiency in a Stratified
Mr. F. A. Kobylanz	Mr. A. A. Rula	TOTOMOTO .	Energy Conversion Devices	Charge Wankel Engine
Mr. R. P. Tuttle	,	* Mr. John T. Stapler	* Dr. G. Iafrate	
		Mr. Joseph Bornstein	Mr. R. L. Ross Dr. F. Rothwarf	* CPT D. M. Hoon
	,	John Solingtolli	Dr. C. Campagnoulo	
3. Lightweight, Small			br. C. Campagnoulo	· .
Laser Transmitter Design for Rangefinders	3. The Effects of Vibration on Vision as Applied to	3. A New Emphasis on the Use of Excited Use State	3. Fabrication of Optical Elements by Means of a	3. The Ring Airfoil Grenade
	Military Vehicles	g Factors for the Inter-	Low Energy Ion Beam	* Mr. Abraham Platau
Mr. John W. Strozyk	* Mr. Richard A. Lee	pretation of Impurity-Ion Spectra		
MAJ John Hynd		Spectra .	* Mr. James D. Lester	•
* CFT Jesse Moss		* Dr. S. Kulpa		
		Dr. N. Karayianis		
ABATRON (Strong page)		, , , , , , , , , , , , , , , , , , , ,		
. ARMIDOP/ZERG-DOP Position- ing Technique	4. Dynamic Response Index	4. New Class of Materials for	A Nov. Approach to Dist. 1	i
-rg recunique	Minimization for Per-	High Energy Storage Appli-	4. A New Approach to Digital	4. A Novel Synthesis of HMX
A Mr. Joseph F. Parnigan	sonnel Escape Systems	cations from Crystallization	Signal Detection	h 11 T T C
mana		of Inorganic Dielectric	* Mr. William A. Huber	* Mr. V. I. Siele
	" Mr. L. A. Destefano .	Glasses under Pressure	alliam A. Huber	Mr. M. Darran
		* Dr. R. J. Zeto		Mr. J. Leccacorvi Mr. E. E. Gilbert
		Mr. E. Hryckowian	* !	AL. E. E. GINDERT
	· ·	Mr. C. D. Bosco		
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	* Den	otes presentor.		

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		ė.		
SUBSESSION A-V 0330-1000, FRI, 23 June Dr. George K. Hess	SUBSESSION B-V 0830-1000, FRI, 23 June Mr. L. M. Taylor	SUBSESSION C-V 0830-1000, FRI, 23 June Mr. Paul F. Yaggy	SUBSESSION D-V 0830-1000, FRI, 23 June Mr. Benjamin Goodwin	SUBSESSION E-V 0830-1000 FRI, 23 June Dr. William W. Carter
1. Choosing Perfermance Paramaters for a Ground. Surveillance Radar with Foliage Fenetration Capability Mr. L. V. Surgent, Jr. 2. Receiver Design and Evaluation by Computer Simulation *Dr. T. J. Klein	1. Spectroscopic Studies of Luminescence Emitted by Dyes Irradiated by Laser Light * Mr. J. A. Souse Mr. J. F. Roach 2. Improved Sound Ranging Location of Enemy Artillery Dr. Donald M. Swingle * Dr. Craig Crenshaw Mr. Raymond Bellucci	1. Discharge of Helicopters by Electronically Con- trolled Emission of Charge Carrying Liquid Droplets * Mr. Rudolph G. Buser Mr. H. M. Kaunzinger Mr. Hans Inslerman 2. Dynamic Compatibility of Helicopter Propulsion Systems Mr. James Gomez * Mr. John M. Vance	1. Miss Distance Radar - A Development for Air Defense Weapons Testing * Mr. Charles E. French 2. The Frequency Response of a Pneumatic Tee Junction LTC F. J. Redd * CPT F. Cardile	1. A Thixotropic Fuel for Tactical Missiles * Mr. Barry D. Allan 2. Electrical Simulation of the Internal Electromagnetic Fuise * Mr. John A. Rosado
3. Doppler Translator *Mr. Otto E. Rittenbach	3. Application of Image Up-Conversion to Night Fire Control * Mr. Joseph A. Schmitz	3. A Theoretical and Experimental Investigation of Flap-Lag Stability of Hingeless Helicopter Rotor Blades * Mr. Robert Ormiston	3. Optimization of Resource Allocation in Maintenance Management Logistics Systems * Mr. R. L. Trent	3. Response of Cylindrical Shells to Traveling Load Simulation of X-Ray Blow-off Impulse * Mr. N. J. Huffington, Jr.
		Mr. William Bousman	COL E. Martin Mr. J. C. Wine	Mr. John D. Wortman
4. Studies in Fersonnel Detection Rider	4. A Helium-Neon Laser Hit- Kill Simulator	4. Development of a Dynamic Model for an Aircraft Gun Turret System	4. Increased Density for Military Foods	4. Advanced High Energy Missile Control Systems
Mr. G. A. Roberts * Mr. R. T. Arcony Mr. S. J. Poperone	SP4 ". Curtis Mr. J. Isaacson Mr. E. Kratschmer Mr. W. Wilson * SP5 B. Yorks	* Mr. Tonney H. M. Hung Mr. James T. Wong Mr. Philip E. Townsend	W. Mr. A. R. Ramman Mr. W. L. Henning Mr. S. Bishov Mr. D. E. Westcott	* Dr. L. C. Atha
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